

Computer Memory Devices, Inc.
5170 West Bethany Home Road, Glendale, Arizona 85301

I 1360
T NELSON
BOX 3
SCHOOLEYS MTN, NJ 07870





Computer Memory Devices, Inc.

Gentlemen:

Enclosed you will find literature on Computer Memory Devices' MD-2201, 2200 BPI, Single Disk, removable media, Drive.

The MD-2201 is a new ultra reliable yet low cost disk memory drive designed primarily to meet the removable media storage needs of the mini and small computer manufacturer.

This disk cartridge used with the MD-2201 is equivalent to a single disk used in the IBM 2316 type disk pack. The high density disk is enclosed in a cartridge which is identical to the IBM 2315 disk cartridge and provides virtually unlimited off-line storage as a removable media.

It is designed to provide performance and reliability and is priced under \$3,600 in OEM quantities.

Thank you for your interest in Computer Memory Devices' MD-2201. If we can be of any further assistance, please let us know. We look forward to hearing from you.

Sincerely,

James E. Flynn
Marketing

JEF:d1

Enclosure



**Computer
Memory
Devices, Inc.**

5170 West Bethany Home Road, Glendale, Arizona 85301

Product specification

MD-2201 single cartridge 2200 bpi disk drive



The MD-2201 – A New Low-Cost, Single-Disk Memory Drive

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The MD-2201 contains all device oriented electronics. Formatting and organization logic are minimized. This non-systems oriented approach allows OEM customers greater design flexibility at a corresponding decrease in cost.

The completely enclosed MD-2201, which fits into a standard 19-inch rack mount, contains an internal cooling and air filtering system to enhance its reliability.

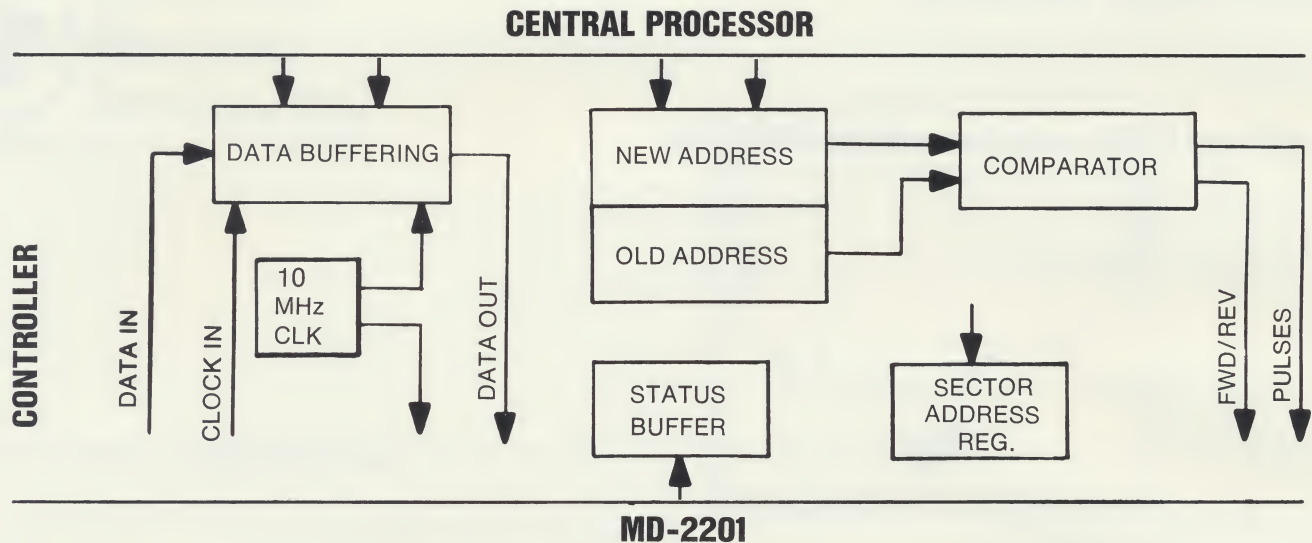
The MD-2201 is Easily Maintained

Accessibility and ease of maintenance have been stressed in the design of the MD-2201. Circuit modules are located at the front of the unit and swing out for maintenance. Electrical and mechanical adjustments have been minimized. Minor electrical adjustments and single-point lubrication are normally recommended only twice-yearly. Drive-belt tension adjustment is virtually automatic through the use of a spring-loaded mechanism.

Adjustment Free Positioner

The inherent simplicity of the electro-mechanical positioner used in the MD-2201 ensures the utmost in reliability and durability. Careful selection of materials enables self-compensation of temperature effects which might otherwise cause positioning errors. A unique positioner attachment technique results in zero back-lash and virtually no wear. The positioner features dashpot-controlled head loading and a design that facilitates head replacement, should it become necessary.





INTERFACING

Simplified block diagram for interfacing the MD-2201 to a typical mini-computer system.

Interface Signal Definitions:

All interface signals are T²L compatible

1. Input signals
 - a. Write select
 - b. Write data
 - c. Head select
 - d. Move forward pulse
 - e. Move reverse pulse
 - f. Erase control
 - g. Initial reset
2. Output signals
 - a. Read data
 - b. Read clock
 - c. Sector pulse
 - d. Index pulse
 - e. Home position
 - f. Position error
 - g. Ready
 - h. Interlock
 - i. Access complete

SPECIFICATIONS

Operating Characteristics

Recording technique	
Double frequency	
Bit density	2200 BPI
Track spacing	.010"
Data Rate	2.5 MHZ

CAPACITY

Per cartridge	25,000,000 bits*
Track	62,500 bits*
Cylinder	125,000 bits*
Sector	7,800 bits*
Sectors per track	8
Tracks per cylinder	2
Sectors per cartridge	3,200
Tracks per cartridge	406
Cylinders per cartridge	203

ACCESS TIMES

Rotation	2500 RPM $\pm$ 2%
Average latency time	12.5 m/sec

Head positioning

Track to track	2 m/sec
Average ($av = \frac{\max + \min}{3}$)	134 m/sec
200 tracks	400 m/sec
Settle time	20 m/sec

POWER REQUIREMENTS*

+5V ($\pm$ 5%) DC	1.2 amp.
+12V ($\pm$ 5%) DC	.2 amp.
+24V ($\pm$ 5%) DC	7.5 amp.
-26 ($\pm$ 5%) DC	.3 amp.

*all loads are worse case average

PHYSICAL

Width	19 inches
Depth	28½ inches
Height	17½ inches
Weight	approximately 75 pounds.

BASIC CONFIGURATION

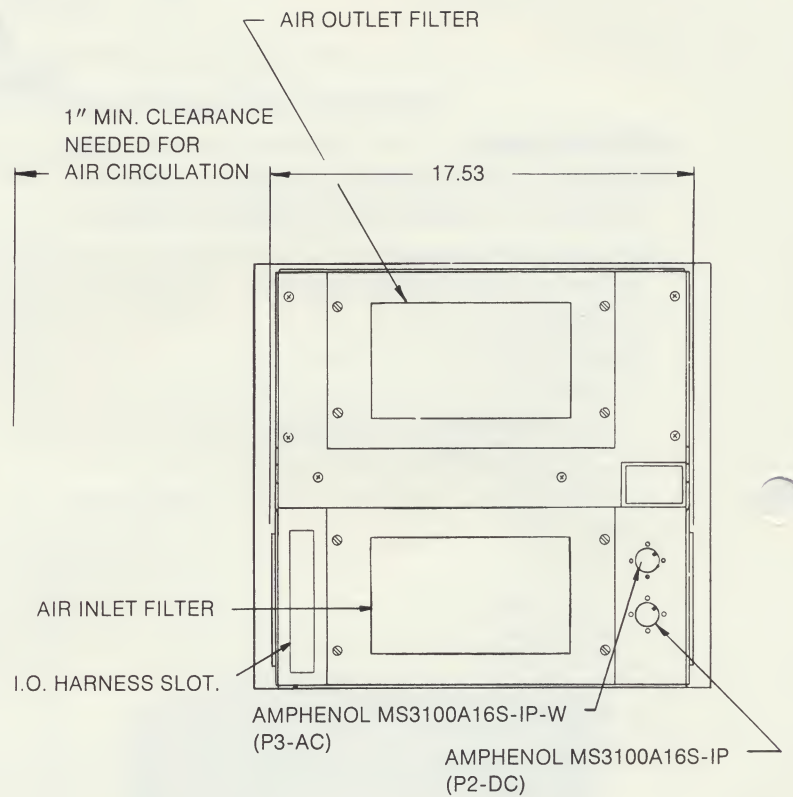
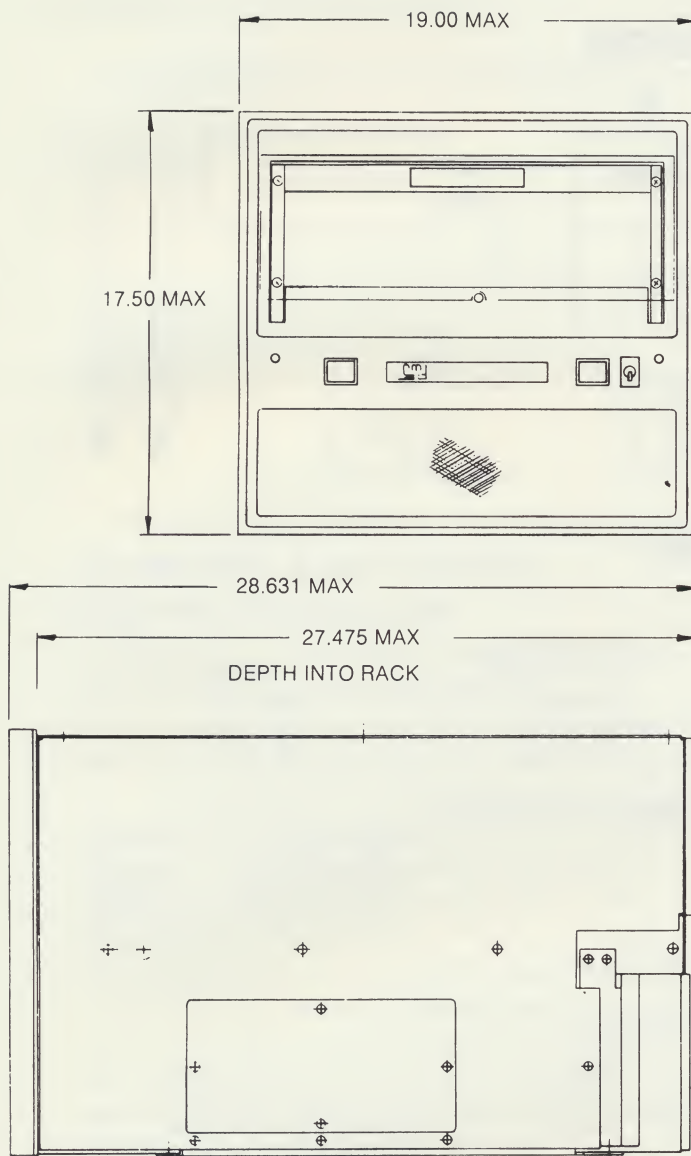
Read/write leads
 Read/write circuits
 Head select circuits
 Positioner electronics
 Data/clock separator circuits
 Sector/index mark electronics
 Start sequence control logic
 Stop sequence control logic
 Spindle with motor
 Spindle control circuits
 Error detection logic
 Cartridge receiver
 Air pressurizer
 Air filter
 External DC/AC connector
 I/O cable
 Safety interlocks
 Operator control and indicators.
 Operation/maintenance manual.

ACCESSORIES:

Power supply*
 Under voltage sensing
 Operator control and indicators.
 Sequencer.
 Power loss detection

*capacities are in an unformatted mode

*the power supply has the capability of driving (2) MD-2201's



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PERFORMANCE CHARACTERISTICS

Transfer Rate — 720,000 bits/sec.
Access Times — Stepping Rate of Disc Drives
DataWord Size — 8 bits
Formatting — 1 Sector per Head on 204 Tracks
Formatting Limit — 97% of Usable Disc

OPERATING CHARACTERISTICS

Single Command Cycle
Command Recycling
Disc Location Incrementing
Seek Repetitive Mode
File Override Mode
Error Override

UNIT COMMANDS

Seek
Seek Initialize
Format
Compare
Write
Automatic (Write/Compare)
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ERROR CHECKING

Compare Error (bit by bit)
No Sector Error
File Position Error

INTERFACE REQUIREMENTS

Power

Voltage — 115 VAC $\pm$ 10%
220 VAC $\pm$ 10%
Current — 1.5 Amps (Max)
Frequency — 47-63 Hz

Input Signals

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Output Signals (DTL)

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DESIGN FEATURES

Principal Components — DTL
Dimensions — 20" x 15" x 7"
Weight — 22 lbs.
Service Life — 5 years
MTBF — 5,000 Hours



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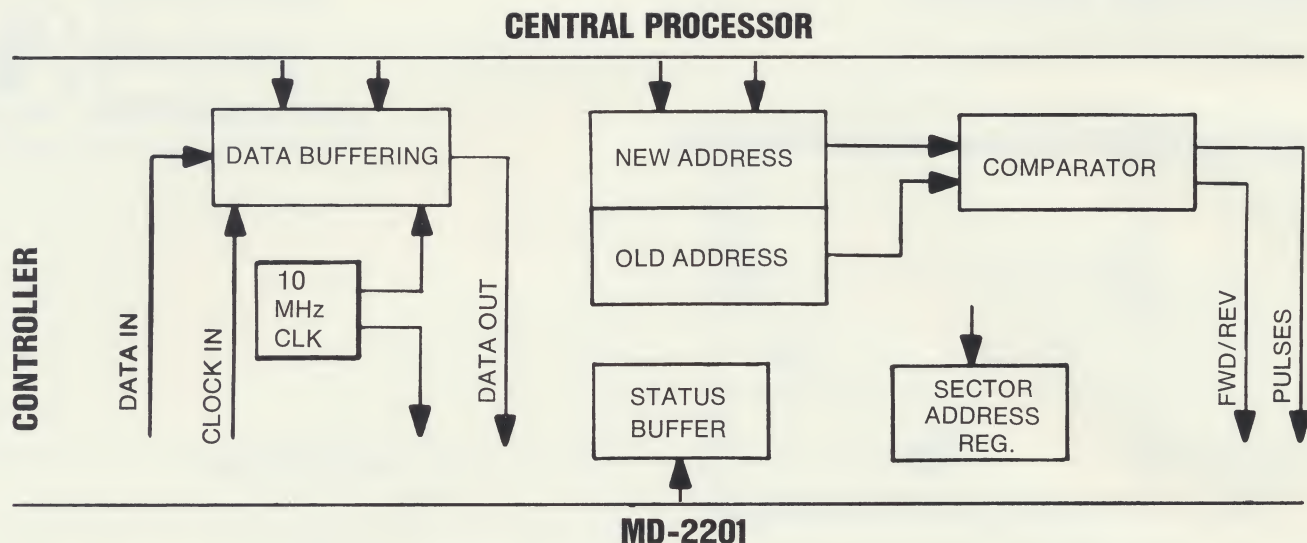
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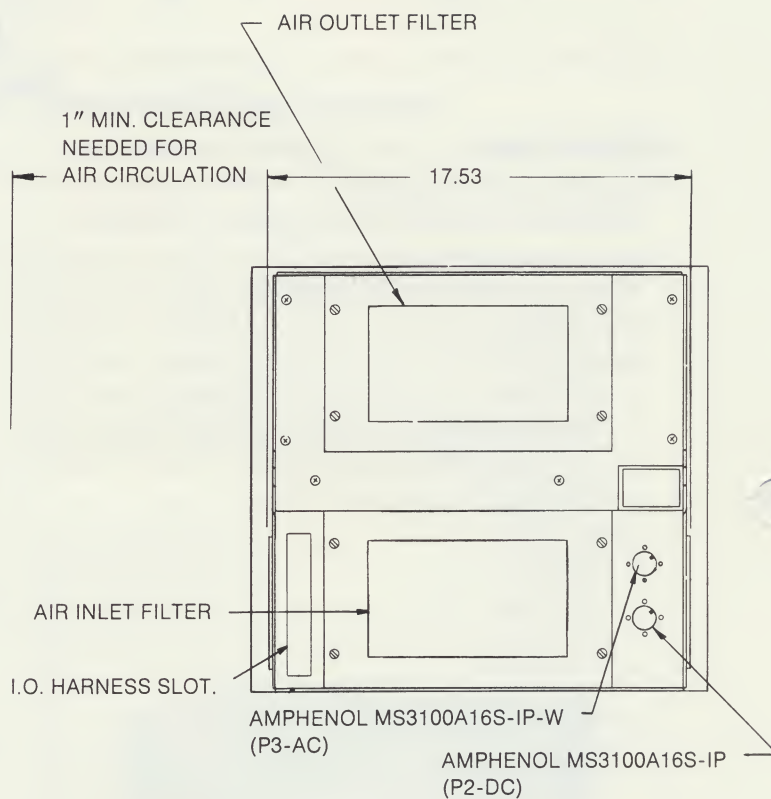
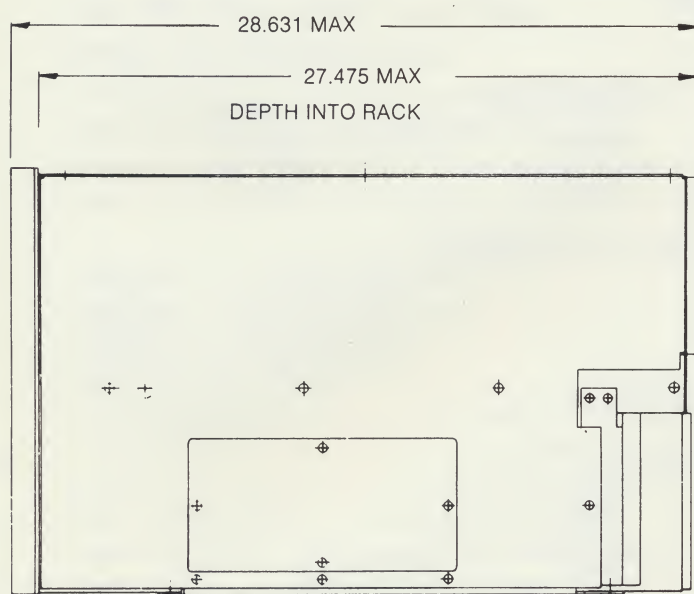
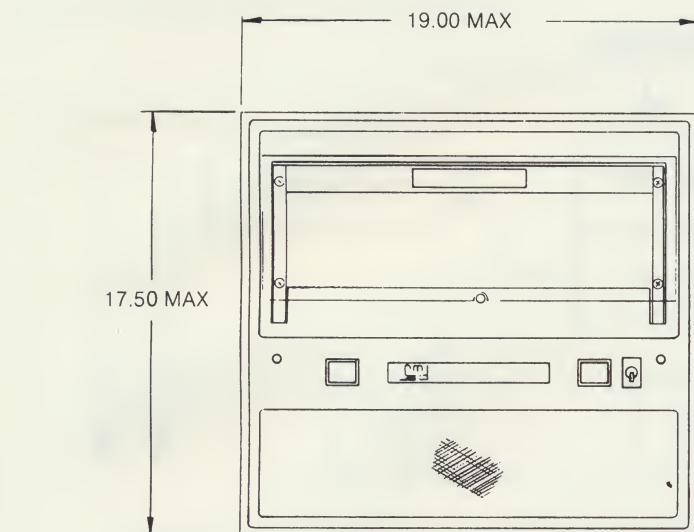
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Seek Initialize
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ERROR CHECKING

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INTERFACE REQUIREMENTS

Power

Voltage — 115 VAC $\pm$ 10%
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Current — 1.5 Amps (Max)
Frequency — 47-63 Hz

Input Signals

True — +5V (+0.25, -0.5)
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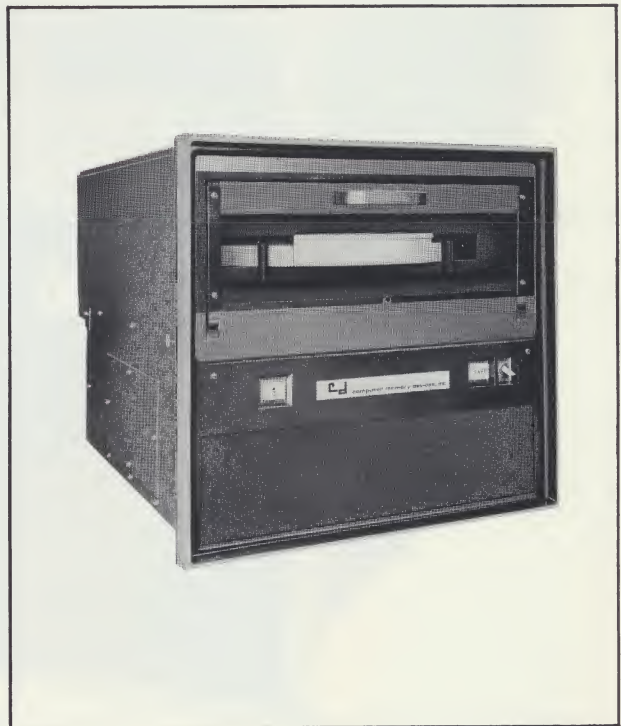
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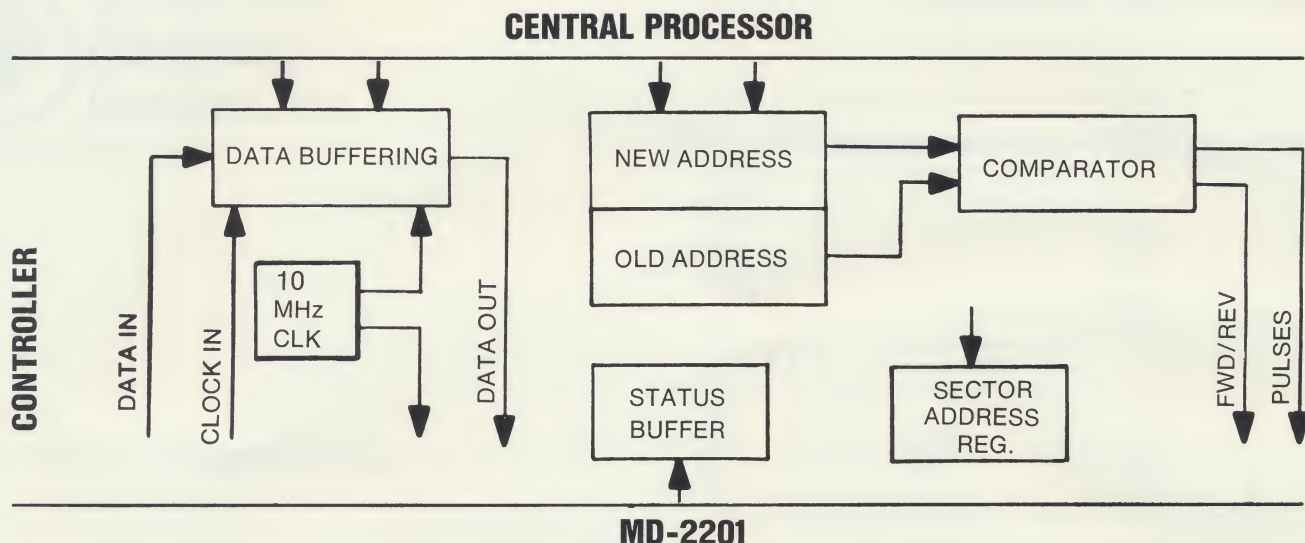
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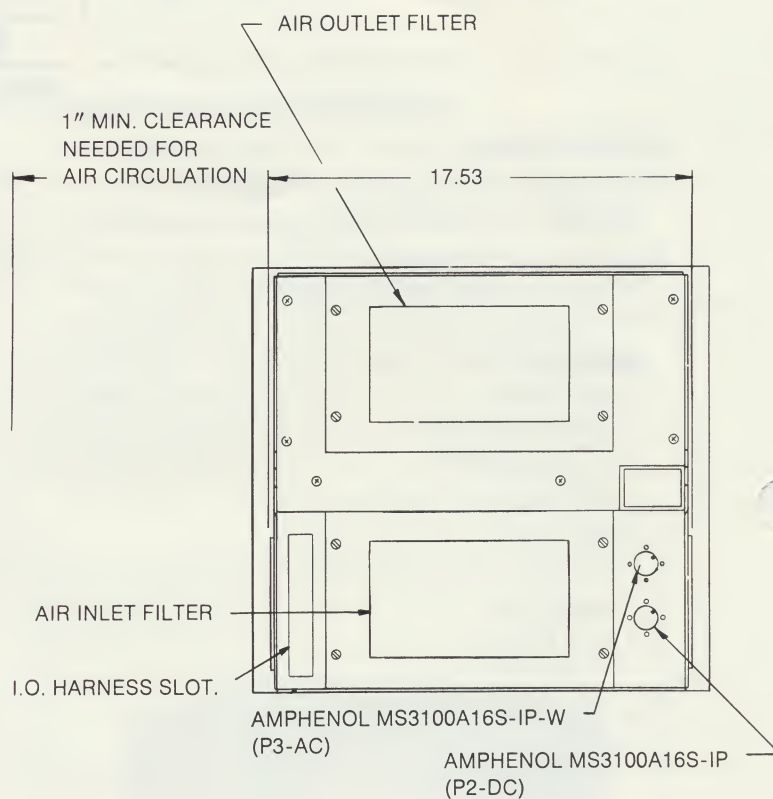
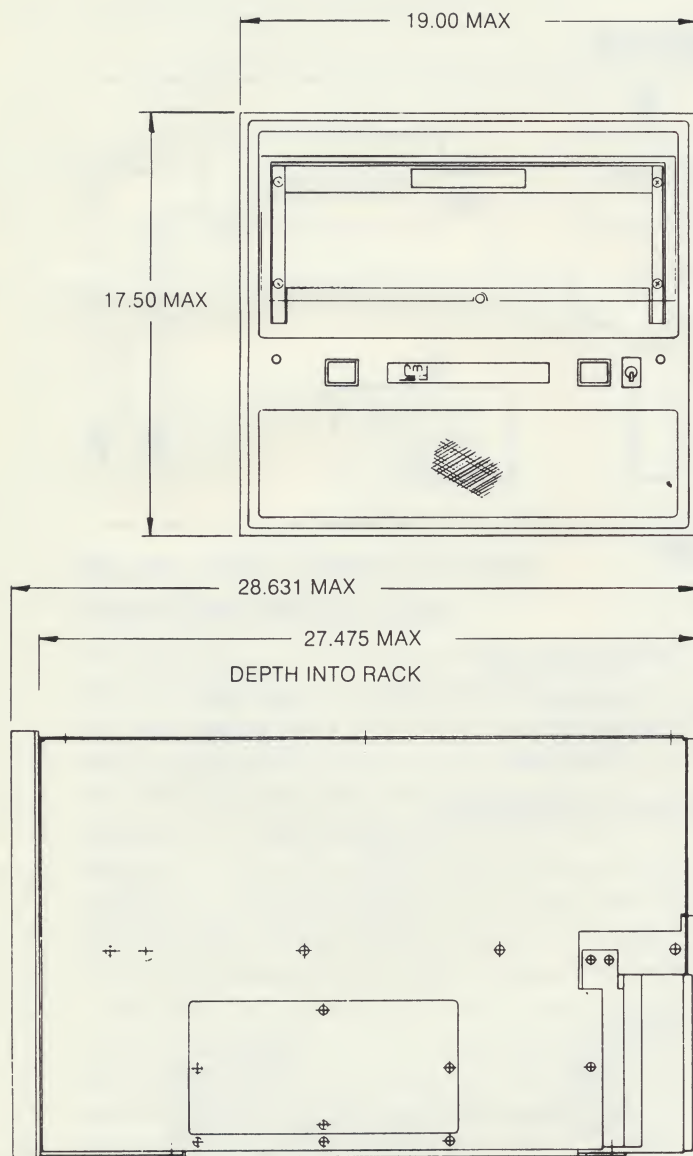
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